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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/665,562 Confirmation No. : 6165

First Named Inventor : Shigeaki MATSUBARA Filed : September 22, 2003

TC/A.U. : 3662

Examiner : J.B. Sotomayor

Docket No. : 056205.52780US

Customer No. : 23911

Title : Automotive Radio Wave Radar and Signal Processing

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R § 1.97 AND 1.98

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and/or listed herein and which the Examiner may deem relevant to patentability of the claims of the above-identified application.

CONCISE EXPLANATION OF NON-ENGLISH LANGUAGE DOCUMENTS

An English abstract of Japanese Publication No. 07-043453 and WIPO Publication No. WO/01/55745 A1 are submitted here with.

The present Information Disclosure Statement is being filed without a Certification under 37 C.F.R. § 1.97(e) after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action or Notice of Allowance (whichever is earlier), and therefore a check for the fee of §180.00 under 37 C.F.R. § 1.17(p) is

attached. Please charge any necessary fee or credit any overpayment in

05/03/2005 JADD01 00000043 10665562

180.00 OP

Attorney Docket No.: 056205.52780US

Application No.: 10/665,562

connection with this Information Disclosure Statement to Deposit Account No. 05-1323.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

If necessary, the paper should be considered as a petition for consideration of the Information Disclosure Statement under 37 C.F.R. § 1.97(d)(2) and that the petition fee set forth in 37 C.F.R. § 1.17(i) in accordance with 37 C.F.R. § 1.97(d)(3) should be charged to Deposit Account 05-1323, Attorney Docket No.: 056205.52780US.

Respectfully submitted,

May 2, 2005

Vincent J. Sunderdick Registration No. 29,004

CROWELL & MORING LLP Intellectual Property Group P.O. Box 14300 Washington, DC 20044-4300 Telephone No.: (202) 624-2500 Facsimile No.: (202) 628-8844

VJS:ddd

Enclosures: Form PTO-1449

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PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
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ENT & TRADE Complete if Known Substitute for form 1449A/PTO Application Number 10/665,562 INFORMATION DISCLOSURE Filing Date September 22, 2003 Shigeaki MATSUBARA STATEMENT BY APPLICANT First Named Inventor 3662 Art Unit J.B. Sotomayor **Examiner Name** (use as many sheets as necessary) 056205.52780US 1 Attorney Docket Number Sheet

U.S. PATENT DOCUMENTS							
Examiner Initials'			Publication Date Name of Patentee or MM-DD-YYYY Applicant of Cited Document	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant		
		Number-Kind Code ² (if known)				Figures Appear	
	ļΑΑ	US- 6,703,967	B1	03-09-2004	Kuroda et al.		

	-	FC	REIGN PATE	NT DOCUMENTS		
Examiner Initials'	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁰
	AB	WO 01/55745 A1	08-02-2001	Hitachi, LTD.		~
	AC	JP 07-043453		Tech Res & Dev Inst of Japan Def Agency Mitsubishi Electric Corp		_

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²			

Examiner	Date	
Signature	Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department.of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/17 (12-04) Approved for use through 07/31/2006. OMB 0651-0032

(202) 624-2500

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Under the Paperwork Reduction Act 874,995 no persons are required to Effective on 12/06/2004 TRAD.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL For FY 2005

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 180

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Complete if Known					
10/665,562					
September 22, 2003					
Shigeaki MATSUBARA					
J.B. Sotomayor					
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056205.52780US					

METHOD OF PAYMENT (check all that a	pply)							
□ Check □ Credit Card □ Money Order □ None □ Other (please identify):									
□ Deposit Account Deposit	osit Account Numb	er: 05-	1323 (Docket	No. 056205.52780l	JS)	Deposit Account Na	me: 23911		
For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)									
Charge fee(s) indicated	☐ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee								
Charge any additional for		nents of fee(s)		y overpayments					
under 37 CFR 1.16 and	1.17								
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information and authorization	on PTO-2038.								
FEE CALCULATION			- 1			 			
1. BASIC FILING, SEARCI	•		05.50	===0	5×44414	TION SEED			
	FILING F		SEARC	H FEES	EXAMINA	TION FEES			
Application Type	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fees Paid (\$)		
Utility	300	150	500	250	200	100	rees raid (4)		
Design	200	100	100	50	130	65			
Plant	200	100	300	150	160	80			
Reissue	300	150	500	250	600	300			
Provisional	200	100	0	. О	0	0			
2. EXCESS CLAIM FEES									
							Small Entity		
Fee Description						Fee (\$)	Fee (\$)		
Each claim over 20 or, fo				•	•	50	25		
Each independent claim	over 3 or, for Re	issues, each in	dependent c	aim more than in	the original p	atent 200	100		
Multiple dependent claim	s					360	180		
Total Claims	Extra claims	Fees(\$)	Fee Pai	d (\$)	<u>Mul</u>	tiple Dependence C	aims		
20 or HP		_ ×	. =			Fee(S)	Fee Paid (\$)		
HP = highest number of total cl									
Indep. Claims	Extra claims	Fees(\$)	Fee Pai	<u>d (\$)</u>					
- 3 or HP HP = highest number of total cl	nime sold for if or	X	· 						
*	-	eater than 5							
3. APPLICATION SIZE FEE									
If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).									
Total Sheets	Extra Sheets			additional 50 or fra	•	Fee (\$)	Fee Paid (\$)		
- 100 =		/ 50 =		ound up to a whole					
4. OTHER FEES				•					
Fee Paid (\$)									
Non-English Specification, \$130 fee (no small entity discount)									
Other: Information	Dislcosure St	atement					\$180.00		
SUBMITTED BY									

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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(Attorney/Agent)

29,004

Signature

Name (Print/Type)

Vincent J. Sunderdick